

### REMARKS

Claims 1-12 were presented for examination, are pending and are rejected.

Reconsideration is respectfully requested.

#### Specification

The disclosure is objected to because of informalities and has been amended as required by the Examiner. Therefore the objections should be withdrawn.

#### Drawings

Corrected drawings, as required by the Examiner, are attached. Therefore the objections to the drawings should be withdrawn.

#### Claim Objections

Claims 1-9, 11 and 12 are objected to because of informalities and have been corrected as required by the Examiner. Therefore the objections should be withdrawn.

#### The 35 U.S.C Section 102(a) Rejections

Claims 1, 2, 4, 6-8, 10 and 12 are rejected as being anticipated by Zhang. The rejection is respectfully traversed.

Zhang teaches serial processing. All of the applicants' claims recite parallel processing. Further, Zhang teaches systems that reduce the number of multipliers,

whereas the applicants' claims all recite the use of a Quadrature Amplitude Modulation modulator that does not include a multiplier. Therefore the rejection should be withdrawn.

#### The 35 U.S.C. § 103 Rejections

Claims 3, 5, 9 and 11 are rejected as being unpatentable over Zhang. The rejection is respectfully traversed.

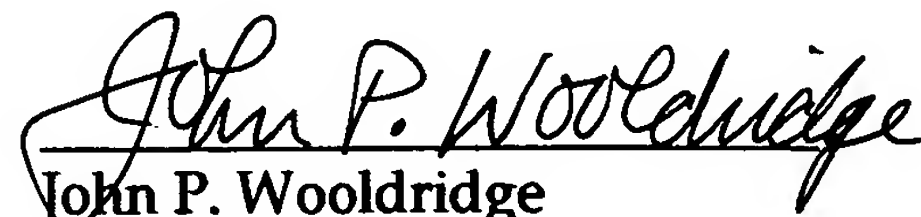
These claims depend from claims that should be allowable over the reference as discussed above. Therefore the rejection should be withdrawn.

#### Conclusions

It is submitted that this application is in condition for allowance based on claims 1-12 in view of the amendments thereto and the foregoing comments.

If any impediments remain to prompt allowance of the case, please contact the undersigned at 808-875-0012.

Respectfully submitted,

  
John P. Wooldridge  
Attorney for Applicant  
Registration No. 38,725

Dated: May 31, 2005

**Amendments to the Drawings:**

Replacement sheets of drawings are attached with corrections as required by the Examiner.

**Attachment: Seven Replacement Sheets**